

CPC**COOPERATIVE PATENT CLASSIFICATION****A24C****MACHINES FOR MAKING CIGARS OR CIGARETTES****Making cigars****A24C 1/00**

Elements of cigar manufacture (combinations of two or more elements of cigar manufacture [A24C 3/00](#); attaching or incorporating filters or mouthpieces [A24C 5/47](#), [A24C 5/52](#); cutting machines in general [B26D](#))

A24C 1/02

- . Tobacco-feeding devices with or without means for dividing the tobacco into measured quantities

A24C 1/04

- . Devices for cutting cigar binders or wrappers

A24C 1/045

- .. {Safety devices therefor}

A24C 1/08

- . Making tobacco bunches

A24C 1/10

- .. Bunch-making machines with aprons and tables for wrapping

A24C 1/12

- .. Bunch-making machines with wrapping rollers

A24C 1/14

- .. Bunch-making machines with grippers

A24C 1/16

- . Treating bunches

A24C 1/18

- .. Moulds or presses for cigar bunches

A24C 1/20

- ... Rotating moulds for cigar bunches

A24C 1/22

- .. Rolling formed bunches

A24C 1/24

- .. Cutting bunches to length

A24C 1/26

- . Applying the wrapper

A24C 1/28

- .. Wrapper transferring mechanisms

A24C 1/30

- .. Devices for applying the wrapper to the bunch

A24C 1/32

- .. Devices for forming the tips of cigars (filter-tips, mouthpieces [A24D 3/00](#))

A24C 1/34

- .. Adhesive-applying means

A24C 1/36

- .. Cutting wrapped bunches to length

A24C 1/38

- . Final treatment of cigars, e.g. sorting

A24C 1/383

- .. {Final drying of cigars}

A24C 1/386

- .. {Perforating cigars}

A24C 1/40

- .. Delustering or powdering cigars

A24C 1/42

- .. Marking, printing, or decorating cigars

A24C 1/44

- .. Bundling and pressing devices for cigars

A24C 3/00

Complete manufacture of cigars; Combinations of two or more elements of cigar manufacture

- A24C 5/00** **Making cigarettes; Making tipping materials for, or attaching filters or mouthpieces to, cigars or cigarettes**
- A24C 5/002 . {Feeding arrangements for individual paper wrappers}
 - A24C 5/005 . {Treatment of cigarette paper}
 - A24C 5/007 .. {Perforating}
 - A24C 5/02 . Cigarette-filling machines
 - A24C 5/04 .. with continuous rod ([A24C 5/14](#) takes precedence)
 - A24C 5/06 .. with pressing-chamber
 - A24C 5/08 . Machines with aprons and tables for wrapping
 - A24C 5/10 . Machines with wrapping rollers
 - A24C 5/12 . Cutting the ends of filled and rolled cigarettes
 - A24C 5/14 . Machines of the continuous-rod type ([tobacco feeding devices A24C 5/39](#))
 - A24C 5/18 .. Forming the rod
 - A24C 5/1807 ... {with compressing means, e.g. garniture}
 - A24C 5/1814 ... {containing parts of different densities, e.g. dense ends}
 - A24C 5/1821 ... {containing different tobacco mixtures, e.g. composite rods}
 - A24C 5/1828 ... {by cutting tobacco sheet material}
 - A24C 5/1835 ... {Multiple rod making devices}
 - A24C 5/1842 ... {Trimming devices}
 - A24C 5/185 ... {Separating devices, e.g. winnowing, removing impurities}
 - A24C 5/1857 ... { Belt construction or driving means}
 - A24C 5/1864 ... {Conditioning means, e.g. drying}
 - A24C 5/1871 ... {Devices for regulating the tobacco quantity}
 - A24C 5/1878 ... {for oval cigarettes}
 - A24C 5/1885 ... {for cigarettes with an axial air duct}
 - A24C 5/1892 ... {with additives, e.g. binding agent, flavorants}
 - A24C 5/20 .. Reels; Supports for bobbins; Other accessories
 - A24C 5/22 .. Creasing the paper seam
 - A24C 5/24 .. Pasting the seam
 - A24C 5/26 .. Drying the seam
 - A24C 5/28 .. Cutting-off the tobacco rod
 - A24C 5/30 ... Machines combined with devices for grinding the knives
 - A24C 5/31 .. with special arrangements coming into operation during starting, slowing-down or breakdown of the machine, e.g. for diverting or breaking the continuous rod
 - A24C 5/32 . Separating, ordering, counting, or examining cigarettes ([in relation to packaging B65B 19/00](#)); Regulating the feeding of tobacco according to rod or cigarette condition ([investigating or analysing materials by determining their chemical or physical](#)

- properties [G01N](#); controlling in general [G05](#))
- A24C 5/321 .. {Counting means}
 - A24C 5/322 .. {Transporting cigarettes during manufacturing}
 - A24C 5/323 ... {pneumatically}
 - A24C 5/325 ... {from a hopper}
 - A24C 5/326 ... {with lateral transferring means}
 - A24C 5/327 ... {Construction details of the cigarette transport drum}
 - A24C 5/328 ... {Controlling means}
 - A24C 5/33 .. Catching or ordering devices
 - A24C 5/333 ... {for combining several rows into one}
 - A24C 5/336 ... {Turning means}
 - A24C 5/34 .. Examining cigarettes or the rod, e.g. for regulating the feeding of tobacco;
Removing defective cigarettes
 - A24C 5/3406 ... {Controlling cigarette combustion}
 - A24C 5/3412 ... {by means of light, radiation or electrostatic fields ([A24C 5/3406](#) takes precedence)}
 - A24C 5/3418 ... {by pneumatic means ([A24C 5/3406](#) takes precedence)}
 - A24C 5/3424 ... {by weighing ([A24C 5/3406](#) takes precedence)}
 - A24C 5/343 ... by mechanical means, e.g. feelers
 - A24C 5/345 ... Removing defective cigarettes ([A24C 5/31](#) takes precedence)

 - A24C 5/35 .. Adaptations of conveying apparatus for transporting cigarettes from making machine to packaging machine
 - A24C 5/352 .. Using containers, i.e. boats
 - A24C 5/354 ... Filling the boats at the making machine
 - A24C 5/356 ... Emptying the boats into the hopper of the packaging machine ([hopper construction B65B 19/04](#))
 - A24C 5/358 ... Boat constructions

 - A24C 5/36 .. Removing papers or other parts from defective cigarettes

 - A24C 5/38 .. Machines combined with printing devices

 - A24C 5/39 .. Tobacco feeding devices ([regulating feed according to rod or cigarette condition A24C 5/34](#))
 - A24C 5/391 .. {feeding to several cigarette making machines}
 - A24C 5/392 .. {feeding pneumatically}
 - A24C 5/393 .. {with a vibrating conveyer}
 - A24C 5/394 .. {with an auxiliary feed unit}
 - A24C 5/395 .. {with arrangements in the hopper, e.g. for spreading, tamping}
 - A24C 5/396 .. {with separating means, e.g. winnowing, removing impurities}
 - A24C 5/397 .. {with means for regulating the tobacco quantity}
 - A24C 5/398 .. {Driving arrangements}
 - A24C 5/399 .. {Component parts or details, e.g. feed roller, feed belt}

- A24C 5/40 . Hand-driven apparatus for making cigarettes
- A24C 5/42 .. Pocket cigarette-fillers
- A24C 5/425 ... {for obtaining cigarettes of various lengths}
- A24C 5/44 .. Pocket cigarette-rollers

- A24C 5/46 . Making paper tubes for cigarettes (making paper tubes in general [B31C](#))
- A24C 5/465 .. {the paper tubes partially containing a filter element}

- A24C 5/47 . Attaching filters or mouthpieces to cigars or cigarettes, e.g. inserting filters into cigarettes or their mouthpieces ([A24C 5/52](#) takes precedence; filters, their manufacture, mouthpieces [A24D 3/00](#))
- A24C 5/471 .. {by means of a connecting band}
- A24C 5/472 ... {Applying adhesives to the connecting band}
- A24C 5/473 ... {Cutting the connecting band}
- A24C 5/474 .. {by inserting filters into cigarettes or their mouthpieces}
- A24C 5/475 .. {adapted for composite filters}
- A24C 5/476 .. {adapted for cigars or cigarettes with a hollow mouthpiece, e.g. recess filter cigarettes}
- A24C 5/477 ... {with a mouthpiece made from plastic, wood or the like}
- A24C 5/478 .. {Transport means for filter- or cigarette-rods in view of their assembling}

- A24C 5/52 . Incorporating filters or mouthpieces into a cigarette rod or a tobacco rod (filters, their manufacture, mouthpieces [A24D 3/00](#))

- A24C 5/54 . Folding the ends of cigarette paper tubes after filling them with tobacco

- A24C 5/56 . Making tipping materials, e.g. sheet cork for mouthpieces of cigars or cigarettes, by mechanical means (chemical part of making tipping material [C08](#); wrapping papers for cigarettes [D21H](#))
- A24C 5/565 .. {by treating the tipping material with a liquid or viscous solution, e.g. paraffine (final treatment [A24C 5/608](#))}
- A24C 5/58 .. Applying the tipping materials
- A24C 5/583 ... {to a continuous web of cigarette paper}
- A24C 5/586 ... {to a cigarette}

- A24C 5/60 . Final treatment of cigarettes, e.g. marking, printing, branding, decorating
- A24C 5/601 .. {Marking, printing or decorating cigarettes}
- A24C 5/602 ... {Bronzing}
- A24C 5/603 .. {Final drying of cigarettes}
- A24C 5/605 .. {Pressing of cigarettes, e.g. for obtaining an oval form}
- A24C 5/606 .. {Perforating cigarettes}
- A24C 5/607 ... {by mechanical means}
- A24C 5/608 .. {Treating cigarettes with a liquid or viscous solution}